

ABSTRACT

Sub
A2 7

5 A melt spinning apparatus and a method for spinning
a synthetic yarn, wherein the yarn is formed by combining
a plurality of filaments and wound to a package by means 20
of a takeup device downstream of the spinning apparatus.
Downstream of the spinneret, an inlet cylinder with a
gas-permeable wall and a cooling tube are arranged. The
cooling tube connects to a suction device such that an
air stream forms in the cooling tube in the direction of
10 the advancing yarn. This air stream assists the advance
of the filaments and leads to a delayed cooling. To
ensure adequate cooling of the filaments within the
cooling zone, an air supply device is provided for
generating an additional cooling air stream which flows
15 in the axial direction of the cooling tube for cooling
the filaments downstream of the inlet to the cooling
tube.

#4368964v1

09767452-012301